## In the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

## **Listing of Claims**

- 1. (Withdrawn) A ligand specific for mammalian troponin, wherein the ligand comprises a molecule that binds to a mammalian troponin molecule, but not an avian troponin molecule.
- 2. (Withdrawn) The ligand of Claim 1, wherein the mammalian troponin molecule is a troponin I molecule.
- 3. (Withdrawn) The ligand of Claim 1, wherein the mammalian troponin molecule is selected from the group consisting of a slow twitch skeletal muscle troponin I molecule and a fast twitch skeletal muscle troponin I molecule.
- 4. (Withdrawn) The ligand of Claim 1, wherein the ligand is an antibody and the troponin molecule is a polypeptide.
- 5. (Withdrawn) The ligand of Claim 1, wherein the ligand is an antibody produced by immunizing an animal with a peptide having an amino acid sequence selected from the group consisting of SEQ ID NOS: 2-6, 9-13, and 15-35.
- 6. (Withdrawn) The ligand of Claim 1, wherein the ligand binds to a peptide having an amino acid sequence selected from the group consisting of SEQ ID NOS: 2-6, 9-13, and 15-35.
- 7. (Withdrawn) The ligand of Claim 1, wherein the ligand binds to a nucleic acid molecule encoding a peptide having an amino acid sequence selected from the group consisting of SEQ ID NOS: 2-6, 9-13, and 15-35.

- 8. (Withdrawn) The ligand of Claim 1, wherein the ligand is specific for an equine troponin I protein, a porcine troponin I protein, a bovine troponin I protein, or a combination thereof.
- 9. (Withdrawn) An antigen for the production of an antibody specific for a mammalian troponin molecule, wherein the antigen comprises an isolated peptide having an amino acid sequence selected from the group consisting of SEQ ID NOS: 2-6, 9-13, and 15-35, wherein the antibody is not specific for an avian troponin molecule
- 10. (Currently Amended) An assay for detecting a mammalian troponin molecule in a sample, the assay comprising:
  - a) reacting the sample with a ligand that is specific for the mammalian troponin molecule and not specific for an avian troponin molecule for a time and under conditions sufficient to form a complex between the ligand and the troponin molecule; and
  - b) detecting the complex either directly or indirectly as a measure of the presence or amount of the troponin molecule in the sample; and,

wherein the ligand reacts with or binds to an amino acid sequence selected from the group consisting of SEQ ID NOS: 2-6, 9-13 and 15-35.

- 11. (Previously Presented) The assay of Claim 10, wherein the mammalian troponin molecule is a troponin I molecule.
- 12. (Previously Presented) The assay of Claim 10, wherein the mammalian troponin molecule is a troponin I molecule selected from the group consisting of a slow twitch skeletal muscle troponin I molecule and a fast twitch skeletal muscle troponin I molecule.
- 13. (Previously Presented) The assay of Claim 10, wherein the ligand is an antibody and the troponin molecule is a polypeptide.
- 14. (Previously Presented) The assay of Claim 10, wherein the ligand is an antibody produced by immunizing an animal with a peptide having an amino acid sequence selected from the group consisting of SEQ ID NOS: 2-6, 9-13, and 15-35.

- 15. (Previously Presented) The assay of Claim 10, wherein the ligand binds to a peptide having an amino acid sequence selected from the group consisting of SEQ ID NOS: 2-6, 9-13, and 15-35.
- 16. (Previously Presented) The assay of Claim 10, wherein the ligand binds to a nucleic acid molecule encoding a peptide having an amino acid sequence selected from the group consisting of SEQ ID NOS: 2-6, 9-13, and 15-35.
- 17. (Currently Amended) The assay of Claim 10, wherein the ligand is specific for an equine troponin I protein, a porcine troponin I protein, or a bovine troponin I protein or a combination thereof.
  - 18. (Previously Presented) The assay of Claim 10, wherein the sample is animal feed.
- 19. (Withdrawn) A method of making an antibody that is specific for a mammalian troponin molecule and not specific for an avian troponin molecule, comprising administering to an animal an immunogenic amount of a peptide having an amino acid sequence selected from the group consisting of SEQ ID NOS: 2-6, 9-13, and 15-35.